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C-A OPERATIONS PROCEDURES MANUAL

8.15.2 C-A Equipment Calibration Procedure for Chipmunk Test Box

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Hand Processed Changes

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Approved: Signature On File _____
Collider-Accelerator Department Chairman Date

V. Castillo

8.15.2 C-A Equipment Calibration Procedure for Chipmunk Test Box

1. Purpose

The purpose of this document is to provide calibration instructions for the Chipmunk Test Box.

2. Responsibilities

The Chipmunk Test Boxes are calibrated and maintained by the C-A Instrument Room technicians.

3. Prerequisites.

None.

4. Precautions

4.1 The test box will be calibrated annually, and after repair.

5. Procedures

5.1 Physical Inspection

Inspect internally and externally for: loose connectors, loose wiring, damaged ac line cord, poor solder connections, loose mechanical connections.

Correct faults before proceeding with calibration.

5.2 Calibration procedure

5.2.1 All tolerances are $\pm 2\%$.

5.2.2 Check that crystal frequency at pin 4 of IC1 is 1 MHz.

5.2.3 Set frequency switch to 100 and divider switch to 9; check that output frequency is 11.1 Hz. Check that output pulse width is 1 μ sec. Connect output to input, set time to 10 seconds; check that scalar reads 111.

5.2.4 Set frequency switch to 10 and divider switch to 9; check that output frequency is 1.11 Hz. Connect output to input, set timer to 100; check that scalar reads 111.

5.3 Calibration Label

Remove the calibration label from the unit and attach new one indicating current date, next calibration date, and your signature or initials.

5.4 Update calibration database.

6. Documentation

Calibration sticker is to be attached to the chipmunk test boxes.

7. References

None.

8. Attachments

None.